

Application No. 10/666381
Amendment dated November 17, 2005
After Final Office Action of September 29, 2005

Docket No.: 013176.0426D1US

AMENDMENTS TO THE CLAIMS

Claims 1 - 55 (Canceled)

56. (Currently amended) An integrated circuit, comprising:
a switch;
a capacitor; ~~[[and]]~~
~~an insulator layer located between said switch and said capacitor; and~~
a conductive oxygen barrier located between said switch and said capacitor,
wherein said conductive oxygen barrier includes a side edge portion and said insulator layer
comprises a moat region, said moat region being defined partially by a moat sidewall and a moat
bottom, and said moat sidewall including said side edge portion of said conductive oxygen barrier.
57. (Currently amended) An integrated circuit as in claim 56 ~~and further including an~~
~~insulator layer located between said switch and said capacitor and wherein:~~
said capacitor includes a bottom electrode located on said conductive oxygen barrier; and
a portion of said conductive oxygen barrier is located on said insulator layer.
58. (Canceled)
59. (Previously presented) An integrated circuit as in claim 56 wherein said insulator
layer comprises an over-etched portion aligned with said conductive oxygen barrier side edge, and
wherein said bottom-electrode side edge, said conductive oxygen barrier side edge, and said over-
etched portion define said moat sidewall.
60. (Previously presented) An integrated circuit as in claim 59 and further including a
nonconductive oxygen barrier layer located on said bottom-electrode side edge, said conductive-
barrier side edge, and said over-etched portion.
61. (Previously presented) An integrated circuit as in claim 56 wherein said capacitor
includes a ferroelectric material.

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62. (Previously presented) An integrated circuit as in claim 61 wherein said ferroelectric material comprises a layered superlattice material.

63. (Canceled)